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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/984,178	12/03/1997	H.ROBERT HORVITZ	01997198006	1856
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CLARK & ELBING LLP 101 FEDERAL STREET BOSTON, MA 02110			EXAMINER SHUKLA, RAM R	
			ART UNIT 1632	PAPER NUMBER
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Serial No. : 08/984,178
Applicant : Horvitz et al.
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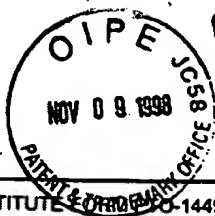
Notice of Allowance/Allowability Mailed

The request for a copy of the initialed PTO 1449, dated October 8, 2003, has been received by the U.S. Patent and Trademark Office.

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A. Marty Willis


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Sheet 1 of 2

SUBSTITUTE FORM 1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Attorney Docket No. 01997/198006		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		(37 CFR §1.98(b))		Serial No. 08/984,178		
				Applicant H. Robert Horvitz et al.		
				Filing Date December 3, 1997		
				Group 1633		
				IDS Filed November 4, 1998		
U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
RES	5,196,333	03/23/93	Chalfie et al.	435	240.1	—
RES	4,855,319	08/08/89	Mikolajczak et al.	514	473	—
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
M	WO 91/19007	12.12.91	PCT			
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
M	Ellis et al., "Genetic Control of Programmed Cell Death in the Nematode <i>C. elegans</i> ", Cell 44:817-829 (1986). Yuan and Horvitz, "The <i>Caenorhabditis elegans</i> Genes <i>ced-3</i> and <i>ced-4</i> Act Cell Autonomously to Cause Programmed Cell Death", Ann. Rev. Cell Biol. 134:33-41 (1991).					
M	Ellis et al., "Mechanisms and Functions of Cell Death", Ann. Rev. Cell Biol. 7:663-698 (1991).					
	Yuan, "Genetic and Molecular Studies of <i>ced-3</i> and <i>ced-4</i> , Two Genes that Control Programmed Cell Death in the Nematode <i>C. elegans</i> ", Ph.D. thesis, Harvard University, Cambridge, MA (Cat. 1990 Widener Library).					
M	Yuan and Horvitz, "The <i>caenorhabditis elegans</i> cell death gene <i>ced-4</i> encodes a novel protein and is expressed during the period of extensive programmed cell death", Development 116:309-320 (1992).					
M	Ellis et al., "Genes Required for the Engulfment of Cell Corpses During Programmed Cell Death in <i>Caenorhabditis elegans</i> ", Genetics 192:79-97 (1991).					
EXAMINER M			DATE CONSIDERED 8/29/99			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.						



SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE		Attorney Docket No.	01997/198006
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(37 CFR §1.98(b))		IDS Filed	November 4, 1998
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)			
<input checked="" type="checkbox"/>	Ellis and Horvitz, "Two C. elegans genes control the programmed deaths of specific cells in the pharynx", Development 112:591-603 (1991).		
<input checked="" type="checkbox"/>	Avery and Horvitz, "A Cell that Dies During Wild-Type C. elegans Development can Function as a Neuron in a ced-3 Mutant", Cell 51:1071-1078 (1987).		
<input checked="" type="checkbox"/>	Hengartner et al., "Caenorhabditis elegans Gene ced-9 Protects Cells from Programmed Cell Death", Nature 356:494-499 (1992).		
<input checked="" type="checkbox"/>	Vaux et al., "Prevention of Programmed Cell Death in Caenorhabditis elegans by Human bcl-2", Science 258:1955-1957 (1992).		
<input checked="" type="checkbox"/>	Vaux "Toward an Understanding of the molecular Mechanisms of Physiological Cell Death", Proc. Natl. Acad. Sci. USA 90:786-789 (1993).		
<input checked="" type="checkbox"/>	Driscoll and Chalfie, "Developmental and Abnormal Cell Death in C. elegans", Trends in Neuroscience 15:15-19 (1992).		
<input checked="" type="checkbox"/>	Driscoll, "Molecular Genetics of Cell Death in the Nematode Caenorhabditis elegans", J. of Neurobiology 23:1327-1351 (1992).		
<input checked="" type="checkbox"/>	Freeman et al. "Cell Death Genes in Invertebrates and (maybe) Vertebrates", Current Opinion in Neurobiology 3:25-31 (1993).		
<input checked="" type="checkbox"/>	Ledoux et al., "Isolation of Nematode Homologs of the C. elegans Cell Death Genes ced-3", Neurobiology of Aging 13:S47 (1992).		
<input checked="" type="checkbox"/>	Yuan, "Genetic and Molecular Studies of ced 3 and ced 4 Two Genes that Control Programmed Cell Deaths with Nematode Celign", Chapters 3 and 4 of Ph.D. Thesis (1990).		
<input checked="" type="checkbox"/>	Siemeister et al., Plant Molecular Biology 14:825-822 (1990).		
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